

IN THE CLAIMS

Please amend the following claims:

- 1 1. (Currently Amended) A heart prosthesis/artificial heart comprising a series of drawing and pressing means and intended to be implanted in a patient to replace the pumping activity of a heart, whereby comprises prosthesis intended to be implanted in a patient to replace the pumping activity of a heart comprising at least [[two]] two compartments, substantially surrounded by rigid-wall provided house a house with a rigid wall and containing a number of drawing and/or pressing devices, which are partly fixedly attached to said rigid-wall provided house, partly fixedly attached to a flexible, elastic wall layer arranged in a respective compartment, whereby the drawing and/or pressing devices are arranged to draw said elastic wall layer towards said rigid-wall provided house for filling said compartments, the prosthesis also comprising wherein it comprises two halves, comprising an atrium, and ventricles as compartments, respectively, separated with a valve provided by a plate with at least one valve, which plate is arranged to be able to be moved between the ventricles and the atriums by means of drawing and/or pressing devices arranged in said rigid wall provided house.
- 1 2. (Currently Amended) A heart prosthesis according to claim 1, wherein it comprises four compartments.
- 1 3. (Currently Amended) A heart prosthesis according to claim 1, wherein the drawing and/or pressing devices are drawing and pressing electromechanical devices, respectively, including electro-magnets electromagnets.

1 4. (Currently Amended) A heart prosthesis according to claim 1, wherein said plate is arranged
2 to be moved by means of ~~electro-magnets~~ electromagnets or a hydraulic device arranged in said
3 wall.

1 5. (Previously Presented) A heart prosthesis according to claim 1, wherein the drawing and/or
2 pressing devices are drawing, and pressing, respectively, hydraulically activated pistons.

1 6. (Currently Amended) A heart prosthesis according to claim 1, wherein it is arranged to be
2 controlled digitally via a soft-ware software present in a circuit board in a diastole, atrium
3 systole, and systole phase, respectively.

1 7. (Previously Presented) A heart prosthesis according to claim 1, wherein it is supplied with
2 energy from one or more DC batteries.